

Figure 1

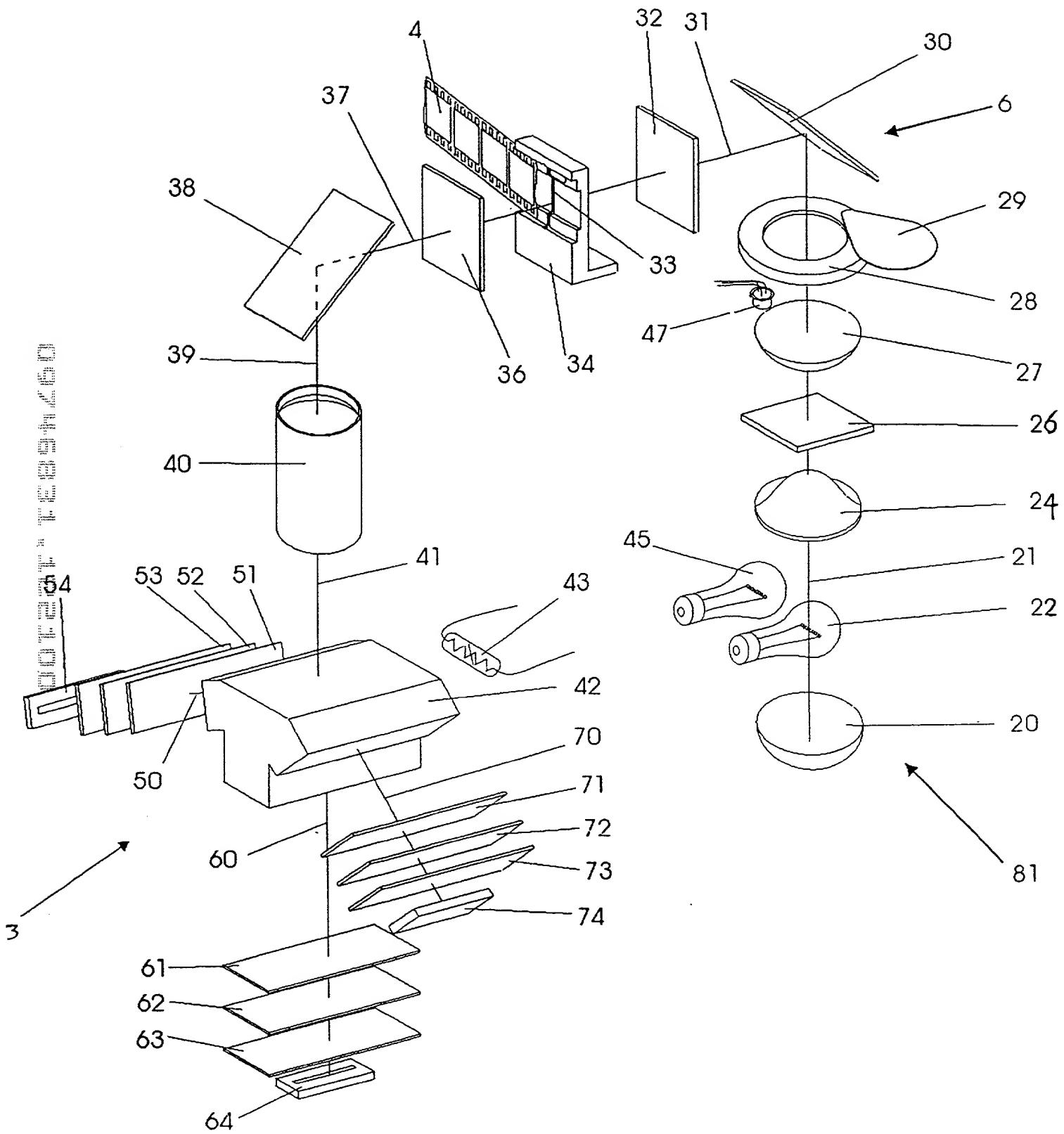


Figure 2

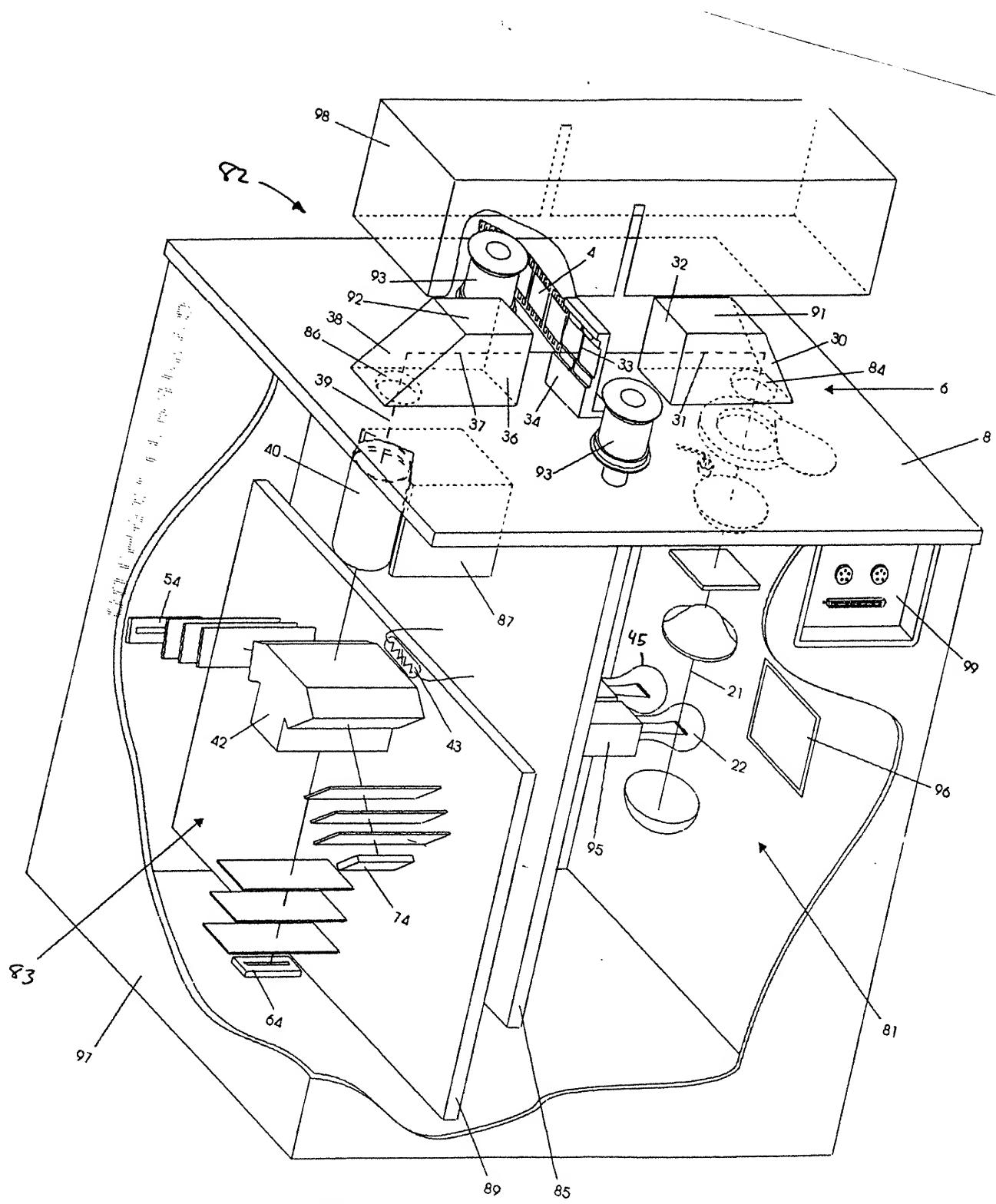


Figure 3

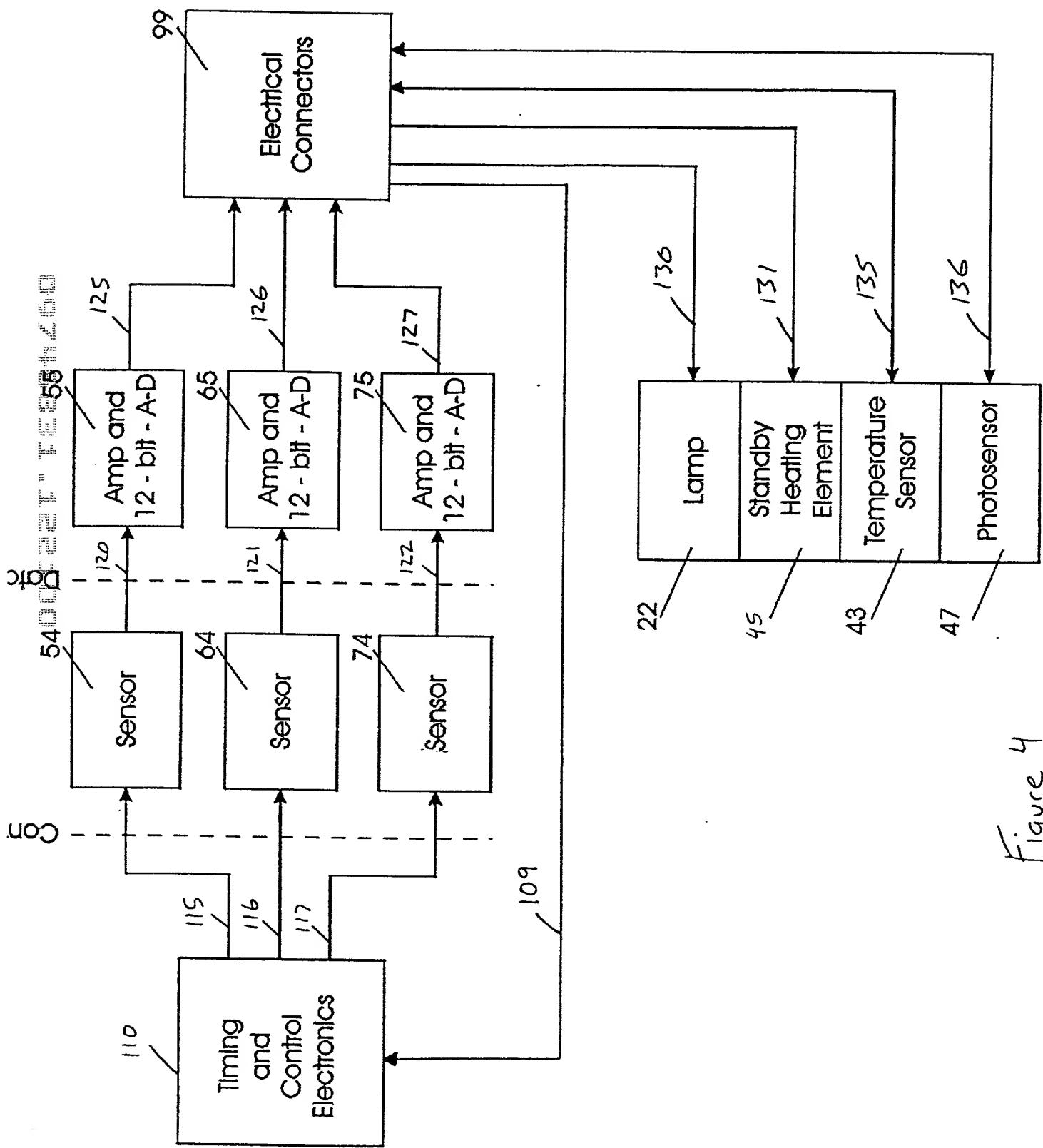


Figure 4

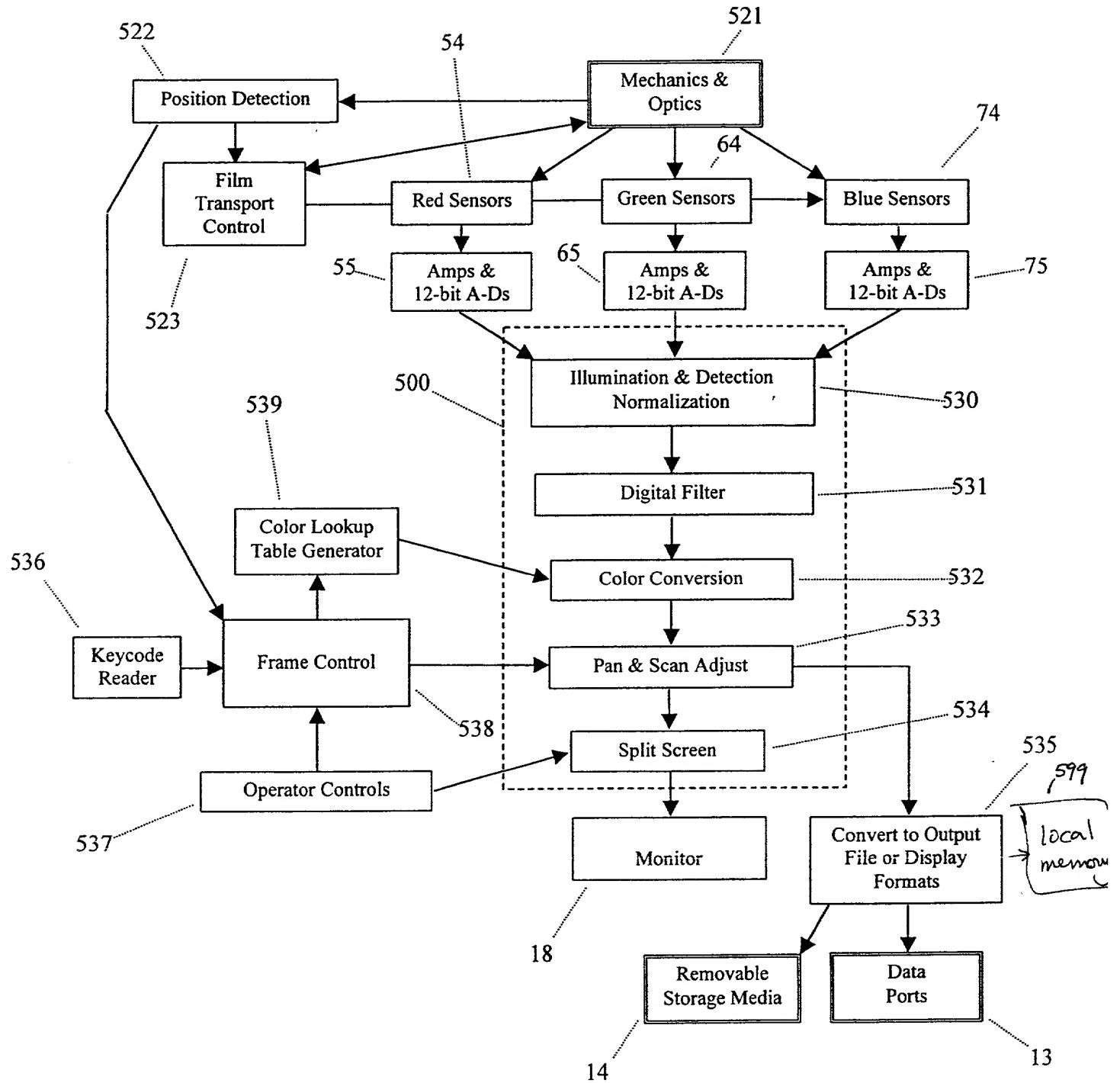


FIG. 5

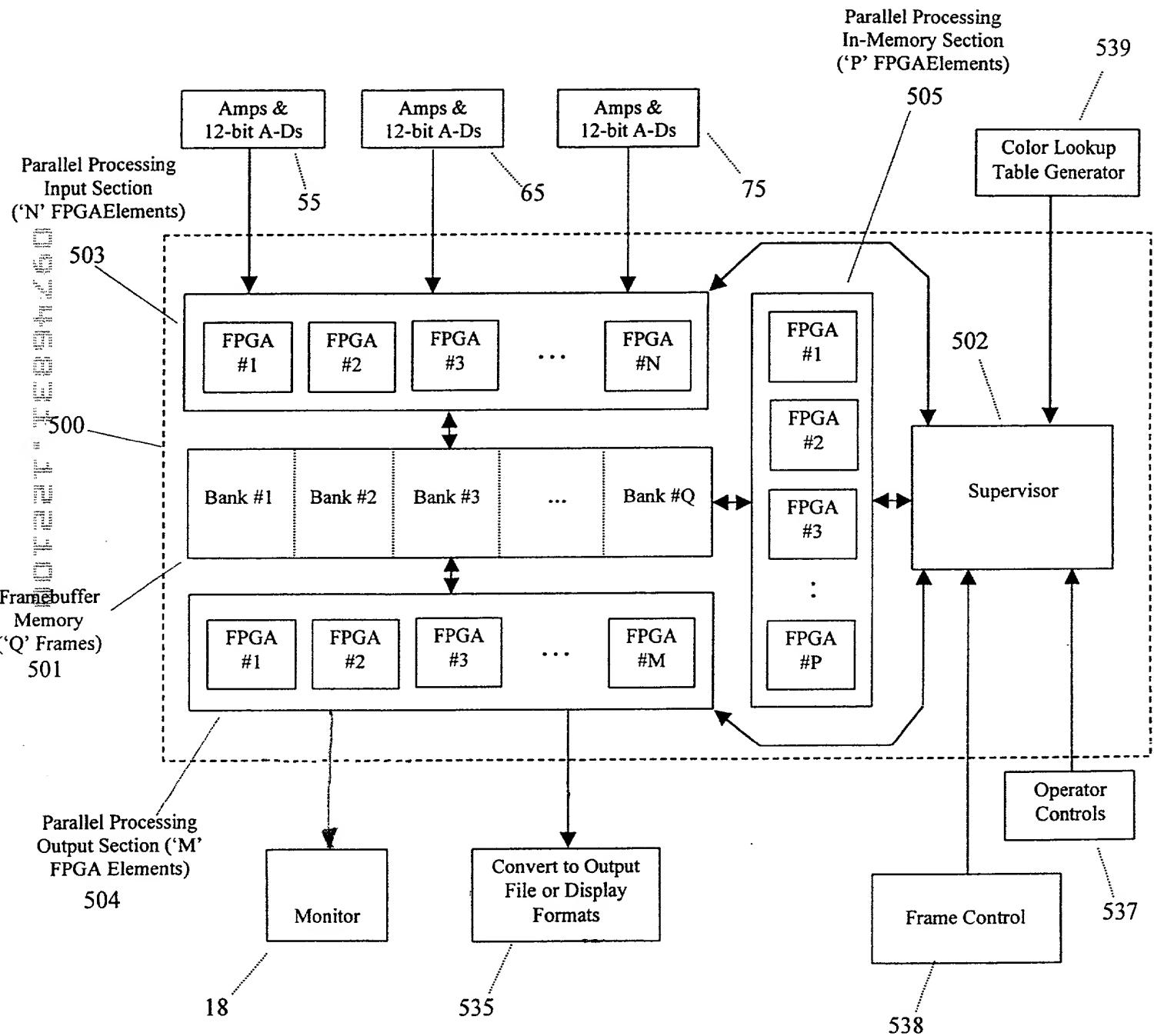


FIG. 6

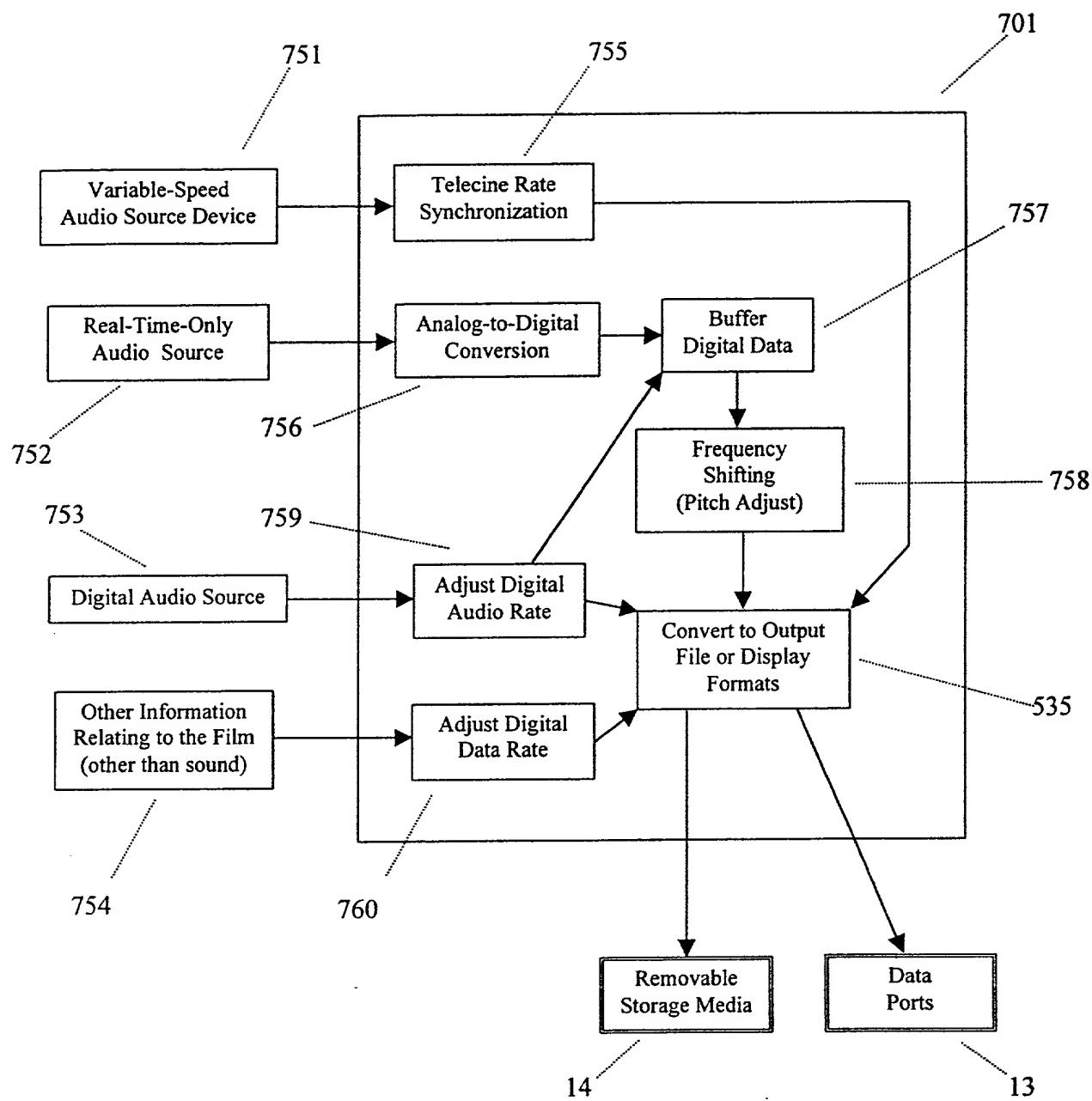


FIG. 7

TABLE A – FILM INPUT FORMATS

35 mm Film Format ¹	Aspect Ratio	Image Width (inches)	Image Height (inches)	Image to Film Frame Ratio
Full-frame (Super 35)	1.33:1	0.981	0.735	1.02
Academy	1.37:1	0.864	0.630	1.18
Anamorphic	1.18:1	0.864	0.630	1.18
1.85:1	1.84:1	0.864	0.469	1.59
3 Perf 1.85:1	1.84:1	0.864	0.560	1.33
TV 4:3	1.33:1	0.816	0.612	1.22
TV 16:9	1.78:1	0.816	0.531	1.41
3 Perf TV 16:9	1.78:1	0.816	0.560	1.33

¹4 Perf unless otherwise specified

TABLE B – TELECINE TO SDTV THROUGHPUT RATES

35 mm Film Format ¹	SDTV					
	480 x 640 Scan			480 x 704 Scan		
	Exposure (μs)	Rate (FPS)	x Real-Time (24 FPS)	Exposure (μs)	Rate (FPS)	x Real-Time (24 FPS)
Full-Frame (Super 35)	10.73	190.29	7.93	11.80	173.09	7.21
		164.49	6.85		149.62	6.23
		164.49	6.85		149.62	6.23
		122.08	5.09		111.04	4.63
		145.94	6.08		132.75	5.53
		159.10	6.63		144.72	6.03
		137.66	5.74		125.22	5.22
		145.94	6.08		132.75	5.53

¹4 Perf unless otherwise specified

Figure 8A

TABLE C - TELECINE TO HDTV THROUGHPUT RATINGS

35 mm Film Format ¹	HDTV					
	720 x 1280 Scan			1080 x 1920 Scan		
	Exposure (μs)	Rate (FPS)	x Real-Time (24 FPS)	Exposure (μs)	Rate (FPS)	x Real-Time (24 FPS)
Full-Frame (Super 35)	21.40	63.63	2.65	32.07	28.31	1.18
Academy		55.00	2.29		24.47	1.02
Anamorphic		55.00	2.29		24.47	1.02
1.85:1		40.82	1.70		18.16	0.76
3 Perf 1.85:1		48.80	2.03		21.71	0.90
TV 4:3		53.20	2.22		23.67	0.99
TV 16:9		46.03	1.92		20.48	0.85
3 Perf TV 16:9		48.80	2.03		21.71	0.90

¹4 Perf unless otherwise specified

TABLE D - VIDEO OUTPUT FORMATS

Video Format		Interlace	Aspect Ratio	Frame Rates ¹ (Hz)	Film Input Scan Rate (FPS)	Real-Time Telecine Throughput ²
TV	NTSC	i	4:3	29.97	48	x 5
	PAL	i	4:3	25	48	x 5
	SECAM	i	4:3	25	48	x 5
DTV	480 x 640	i	4:3	30	48	x 5
	480 x 640	P	4:3	24, 30, 60	48	x 5
	480 x 704	i	16:9	30	48	x 2
	480 x 704	P	16:9	24, 30, 60	48	x 2
	720 x 1280	P	16:9	24, 30, 60	24	x 1
	1080 x 1920	i	16:9	30	18	x ¾
	1080 x 1920	P	16:9	24, 30	18	x ¾

¹with requisite pulldowns ²with film shot at 24 FPS

Figure 8B